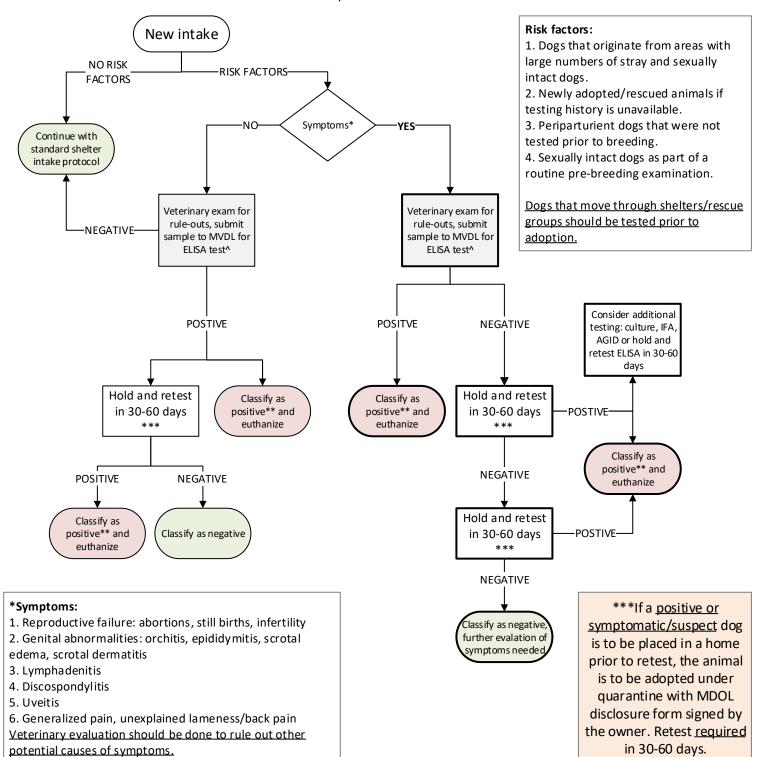


# **Brucella canis** Surveillance for Veterinarians/Animal Shelters

Last updated December 2022



A symptomatic animal that is <u>ELISA negative</u> may be a chronically infected animal. Infected animals may fluctuate between serologically positive and negative, therefore recommend retesting ELISA after 30-60 days or consider additional testing: culture, IFA, or AGID.

- ELISA negative on retest after 30-60 days is considered negative if animal is asymptomatic.
  - ELISA negative on 2nd retest considered negative after if animal is symptomatic.
- An asymptomatic animal that is ELISA positive on retest after 30-60 days is considered positive.



# **Brucella canis ELISA Test Interpretation for Veterinarians**

Last updated December 2022

#### When to test for B. canis:

- Dogs with B. canis symptoms when an alternative diagnosis cannot be determined.

- Dogs with 1 or more risk factor (See Surveillance Flow Chart)

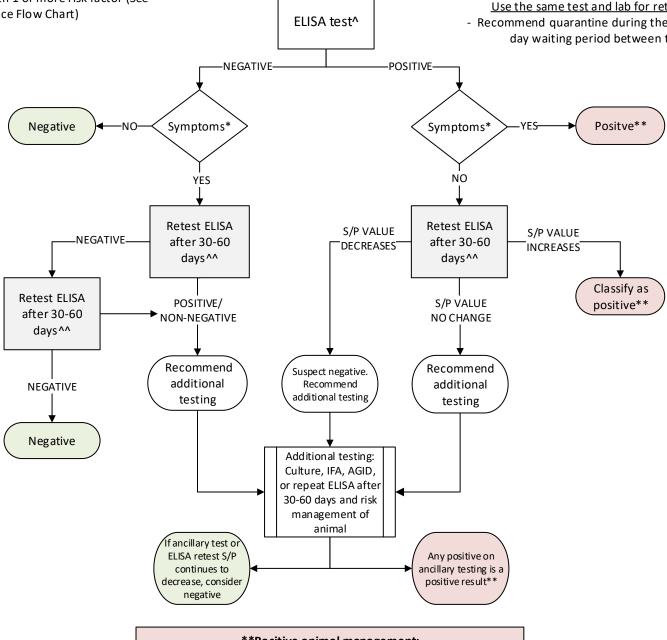
^How to test for B. canis:

 ELISA = primary screening test - Submit serum to Montana Veterinary Diagnostic

Laboratory, test listed under B. ovis ELISA

#### ^^Retest Protocol:

Use the same test and lab for retesting - Recommend quarantine during the 30-60 day waiting period between testing



## \*\*Positive animal management:

Euthanasia recommended

Alternatively, a lifelong quarantine, treatment with antibiotics, retest and disclosure of diagnosis to adopters/owners.

## S/P value

- 1. Sample/Positive value = comparison of how closely related the sample is to a known positive
- 2. S/P > 3 is highly suspicious for infection; however, lower positive S/P values can also indicate infection
- Additional testing may be necessary for definitive diagnosis: Culture, IFA, AGID; call Montana Veterinary Diagnostic Lab for information.
- 3. > 0.8 S/P is considered positive result; however, each case must be interpreted with individual context due to possible exposure titers
- When unclear, consider any positive result as active infection, quarantine, and retest with ELISA after 30-60 days or advise ancillary testing.